used in the National Health Programmes; and

(b) if so, what are the details thereof and the date from which the proposal is likely to be implemented?

THE MINISTER OF STATE IN THE DEPARTMENT OF CHEMICALS AND PETRO-CHEMICALS IN THE MINISTRY OF INDUSTRY (SHRI R. K. JAICHANDRA SINGH) : (a) No, Sir.

(b) Does not arise.

**Combined Solar and wind Power Plant**

895 SHRI PARVATHANENI UPENDRA Will the Minister of ENERGY be pleased to state :

(a) whether some experiments are being conducted with a combined solar and wind power plant to demonstrate the better utilisation of solar and wind energy, and

(b) if so, what are the details regarding the possibility of large-scale application of this technology to solve the power problems?

THE MINISTER OF ENERGY (SHRI VASANT SATHE) : (a) and (b) Yes, Sir. An experimental Solar photovoltaic (2 KW capacity), wind (4 KW capacity) hybrid power project is being implemented at Ramchandi village in Puri District of Orissa Another project for such a hybrid system has been sanctioned for installation at Bet Dwarka in Gujarat. The possibility of large scale application of such hybrid systems can be determined only after evaluation of such systems under different conditions

**Cattle and other animal sources of energy**

896 SHRI KAILASH PATI MISHRA : SHRI ATAL BIHARI VAJPAYEE :

Will the Minister of ENERGY be pleased to state :

(a) whether it is a fact that cattle and other animal sources make available about 66 per cent of the total energy utilised in India while that from coal and petroleum products is only about 14 per cent as reported in the Dairy India, 1987;

(b) if so, what are the details thereof and on what basis these figures have been arrived at; and

(c) what steps have been taken to encourage the better utilisation of the energy from animal sources?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRIMATI SUSHILA ROHATGI) : (a) and (b) It is stated in the Dairy India, 1987 which is non-official publication that, "It is estimated that animal power accounts for 66 per cent of the total energy utilised in India as against only 14 per cent from other conventional sources such as coal" No authoritative source or basis has been cited for the above estimates.

(c) The measures taken to encourage a better utilisation of energy from animal sources include Research and Development and Survey and Demonstration Projects for which a total expenditure of Rs 1.17 crores has been sanctioned by Department of Non-Conventional Energy Sources. Improved carts and implements are being shown to farmers under the Demonstration programmes An outlay of Rs 2 crores has been ear-marked in the budget for 1987-88 for programmes for improvement in the utilisation of draught animal power

**Jhakari and Larji Hydroelectric Projects**

897 SHRI ANAND SHARMA : Will the Minister of ENERGY be pleased to state :

(a) whether it is a fact that the Government of Himachal Pradesh has submitted proposals for the Naathpa Jhakari and Larji, two major hydro-electric projects, to the Government of India and the same have been pending clearance for a long time, and

(b) if so, by when these projects are likely to be cleared and work started on them?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE

MINISTRY OF ENERGY (SHRIMATI SUSHILA ROHATGI) : (a) and (b) Investment approval for Larji Hydro-electric Project has been given in March, 1987. Infrastructural development work has been taken in hand by Government of Himachal Pradesh. Nathpa Jhakri Hydro-electric Project has been techno-economically cleared by the Central Electricity Authority and has also been cleared from the environmental and forest angles. The construction work on the project would follow its investment approval, for which it would be considered after funding aspects have been tied up.

**Drawbacks of the New Drug Policy**

898 SHRI V NARAYANASAMY : Will the Minister of INDUSTRY be pleased to state :

(a) whether the Drugs and Pharmaceuticals Manufacturers Association has represented that the new drug policy introduced by Government does not help the industry for large scale production of essential drugs and there is a crisis in the industry;

(b) whether Government are aware that the new drug policy encourages multinationals once again; and

(c) whether Government have studied the drawbacks in this policy and if so, what remedial steps have been taken in this regard ?

THE MINISTER OF STATE IN THE DEPARTMENT OF CHEMICALS AND PETRO-CHEMICALS IN THE MINISTRY OF INDUSTRY (SHRI R. K. JAICHANDRA SINGH) : (a) to (c) Most sections of the Indian drugs and Pharmaceuticals industry have, by and large, welcomed and commended the recently announced measures for rationalisation, quality control and growth of drugs and pharmaceutical industry.

**Augmentation of Energy Generation**

899. DR. H. P. SHARMA : Will the Minister of ENERGY be pleased to state :

(a) whether Government have worked out any comprehensive strategy for augmentation of energy generation in all the three sectors-hydro, thermal and nuclear—to meet the increased demand for power by the agricultural sector,

(b) what is the expected shortfall against demand during the next six months, month-wise,

(c) what steps Government propose to take to accelerate the commissioning of units scheduled to go on stream during 1987-88, and

(d) what is the response of the coordination with the State Electricity Boards for fulfilling these objectives ?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRIMATI SUSHILA ROHATGI) : (a) The steps taken to improve the availability of power in the country include optimum utilisation of existing capacity, expediting commissioning of new capacity, reducing transmission and distribution losses, commissioning of short gestation projects and implementation of load management and energy conservation measures etc. The States have been advised to meet the requirements of power of agricultural sector on priority and these are, by and large, being fully met.

(b) The actual/anticipated month-wise power supply position during October, 1987 to March, 1988 is given in the enclosed Annexure (*See* Appendix CXLIV, Annexure No 34).

(c) To expedite commissioning of on-going projects, various measures have been taken which include extensive monitoring, expediting supply of equipment and material, visit to project sites by officers to identify and overcome the constraints etc. The need for effective monitoring is also being constantly emphasised on State Authorities.

(d) Discussions are held with the State Authorities from time to time for augmenting generation and expediting commissioning of new capacity and all efforts are being made by the State Authorities in the matter.